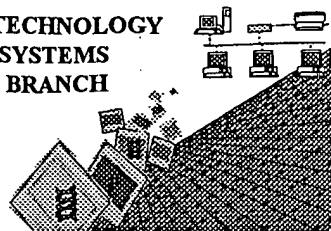


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/786,880A

Source: Pat/09

Date Processed by STIC: 1/26/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/786,880A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



PCT09

RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/786,880A

TIME: 13:07:14

Input Set : A:\16655PC1.APP.txt

Output Set: N:\CRF3\01262002\I786880A.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: AVENTIS PHARMA S.A.
 5 <120> TITLE OF INVENTION: ESSENTIAL GENES FROM C. ALBICANS AND A METHOD FOR
 6 SCREENING ANTIMYCOTIC SUBSTANCES USING SAID GENES
 8 <130> FILE REFERENCE: 16655
 10 <140> CURRENT APPLICATION NUMBER: US/09/786,880A
 11 <141> CURRENT FILING DATE: 2001-03-08
 13 <150> PRIOR APPLICATION NUMBER: EP98402255.8
 14 <151> PRIOR FILING DATE: 1998-09-11
 16 <160> NUMBER OF SEQ ID NOS: 25
 18 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

1529 <210> SEQ ID NO: 11
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 1531 <212> TYPE: PRT
 1532 <213> ORGANISM: Candida albicans
 1534 <400> SEQUENCE: 11
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 1539 20 25 30
 1541 Thr Ser Ile Lys Asn Asp Leu Ala Asn Val Leu Ile Thr Pro Val Pro
 1542 35 40 45
 1544 Leu Asp Gln Ser Arg Ser Lys Leu Gly Asp Ala Ser Lys Pro Val Ala
 1545 50 55 60
 1547 Leu Pro Ser Gly Asp Glu Val Lys Leu Asn Gln Ala Ser Ile Glu Ile
 1548 65 70 75 80
 1550 Thr Gly Val Leu Ser Asn Glu Leu Asp Leu Asp Glu Leu Asn Thr Ala
 1551 85 90 95
 1553 Glu Leu Leu Tyr Asn Ala Ser Asp Leu Ser Tyr Lys Lys Gly Thr Ser
 1554 100 105 110
 1556 Ile Gly Asp Ser Ala Arg Leu Ala Tyr Tyr Leu Arg Ala His Tyr Ile
 1557 115 120 125
 1559 Leu Asn Ile Val Gly Tyr Leu Val Ser His Lys Arg Leu Asp Ile Ile
 1560 130 135 140
 1562 Thr Asn Asn Asn Gln Val Leu Phe Asp Asn Ile Leu Lys Ser Phe Ser
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RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/786,880A

TIME: 13:07:15

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1586 Thr Ile Thr Ser Ser Ile Leu Lys Asp Tyr Glu Ala Asn Asn Phe Ser
1587          275          280          285
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1590          290          295          300
1592 Ile Val Thr Ser Phe Ile Phe Leu Thr Glu Phe Ile Pro Trp Cys Lys
1593 305          310          315          320
1595 Gln Leu Ser Ser Arg Thr Ala Lys Tyr Asp Phe Lys Asp Asp Ile Leu
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1605          370          375          380
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1613 Ser Phe Leu Thr Leu Asp Pro Ser Leu Asn Glu Thr Leu Val Ser Pro
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1641          565          570          575
1643 Ile Leu Val His Asn Asn Asn Asn Ala Ser Thr Arg Lys Asn Asp Phe

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DATE: 01/26/2002

PATENT APPLICATION: US/09/786,880A

TIME: 13:07:15

Input Set : A:\16655PC1.APP.txt

Output Set: N:\CRF3\01262002\I786880A.raw

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1650																
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1653	625															
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1656																
1658	Glu	Asp	Ser	Leu	Val	Leu	Ile	Ser	Gly	Phe	Ile	Gln	Leu	Leu	Ser	Ala
1659																
1661	Ile	Val	Lys	Asn	Leu	Asn	Thr	Lys	Asn	Glu	Arg	Ser	Lys	Glu	Ile	Lys
1662																
1664	Ser	Val	Val	Tyr	Thr	Arg	Phe	Ser	Pro	Ile	Ile	Lys	Gly	Phe	Leu	Lys
1665																
1667	Phe	Asp	Asn	Leu	Ile	Asn	Gly	Ser	Arg	Phe	Leu	Gln	Val	Asp	Ala	Ser
1668	705															
1670	Ile	Gln	Ser	Thr	Asn	Asn	Pro	Lys	Phe	Ile	Asp	Leu	Pro	Asn	Val	Phe
1671																
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1674																
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1680																
1682	Pro	Glu	Asp	Lys	Lys	Asp	Asp	Ala	Phe	Arg	His	Ile	Lys	Arg	Lys	Tyr
1683	785															
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1686																
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1691	Leu	Thr	Pro	Tyr	Ala	Asp	Ser	Asn	Glu	Ala	Phe	Thr	Lys	Tyr	Ser	Leu
1692																
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1695																
1697	Gly	Ile	Trp	Pro	Tyr	Ile	Glu	Phe	Leu	Met	Gln	Asn	Val	Phe	Ala	Asn
1698	865															
1700	Ser	Gly	Thr	Ile	Ala	Asn	Lys	Arg	Asp	Arg	Val	Asn	Leu	Gln	Leu	Asn
1701																
1703	Leu	Leu	Glu	Leu	Phe	Ser	Asn	Ala	Leu	Gln	Gly	Val	Asp	Trp	Lys	Phe
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RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/786,880A

TIME: 13:07:15

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1722                      995                      1000                      1005
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1725                      1010                      1015                      1020
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E--> 1728 1025 1025                      1030                      1035                      1040
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1731                      1045                      1050                      1055
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1742 Thr Arg Val Ser Ser Ser Ala Asp Pro Leu Leu Asn Asn Asp Arg Leu
E--> 1743 1105 1105                      1110                      1115                      1120
1745 Ile Thr Thr Phe Glu Asn Ile Asp Glu Ser Ile Lys Ile Lys Phe Ala
1746                      1125                      1130                      1135
1748 Phe Ile Asp Lys Phe Glu Glu Leu Glu Asp Ser Leu Asn Met Lys Tyr
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1754 Val Ala Thr Thr Ala His Phe Leu Leu Gly Tyr Lys Val Lys Gly Asp
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1776                      1285                      1290                      1295
1778 Phe Val Asp Asn Gln Ala Ser Thr Gln Ala Phe Phe Ser Phe Ile Asn
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1785                      1330                      1335                      1340
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E--> 1788 1345 1345                      1350                      1355                      1360
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```

When
numbering
first amino acid
on a line, begin
the number
directly below
the first letter
of the amino
acid
e.g. Gly | S | Thr
1025 | a | e

RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/786,880A

TIME: 13:07:15

Input Set : A:\16655PC1.APP.txt

Output Set: N:\CRF3\01262002\I786880A.raw

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E--> 1803 (425)          1430          1435          1440
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1809          1460          1465          1470
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1812          1475          1480          1485
1814 Ile Asn Asp Tyr Phe Asp Val Asp Ile Leu Phe Ser Glu Glu Met Val
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E--> 1818 (505)          1510          1515          1520
1820 Asp Arg Lys Gly Glu Asp Phe Ala Leu Gly Ile Glu Arg Leu Ile Pro
1821          1525          1530          1535
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1841 Ile Lys Asn Asn Ala Leu Leu Leu Leu Val Arg Ser Val Lys Arg Thr
1842          1635          1640          1645
1844 Asp Ala Met Ile Lys Leu Cys Gln Glu Lys Asn Ser Gly Val Thr Leu
1845          1650          1655          1660
1847 Asp His Phe Ile Phe Asp Leu Met Ala Phe Lys Ala Thr Leu Tyr Phe
E--> 1848 (665)          1670          1675          1680
1850 Phe Val Arg Val Ala Lys Ser Lys Asn Gly Ala Leu Gln Leu Ile Gln
1851          1685          1690          1695
1853 Asn Glu Leu Phe Ser Ile Leu His Gln Ser Lys Phe Leu Gln Ile Asp
1854          1700          1705          1710
1856 Pro Asp Ile Gly Leu Ser Leu Arg Ile Glu Glu Val Gln Asp His Lys
1857          1715          1720          1725
1859 Thr Val Asn Val Asn Val Leu Leu Asp Thr Pro Leu Ser Ile Thr Asp
1860          1730          1735          1740
1862 Leu Val Asp Pro Tyr Lys Leu Arg Ser Glu Asn Thr Ile Ser Tyr Phe
E--> 1863 (745)          1750          1755          1760

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same
even

RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/786,880A

TIME: 13:07:15

Input Set : A:\16655PC1.APP.txt

Output Set: N:\CRF3\01262002\I786880A.raw

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 1866 1765 1770 1775
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 1869 1780 1785 1790
 1871 Lys Ser Val Asn Arg Leu Val Val Gly Val Met Lys Arg Asp Phe Leu
 1872 1795 1800 1805
 1874 Val Glu Thr Lys Lys Gln Ile Gly Gln Gly Leu Tyr Lys Glu Glu Ser His
 1875 1810 1815 1820
 1877 Glu Leu Val Ser Leu Lys Glu Leu Val Lys Leu Phe Ile Leu Ile Asp
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 1880 Ser Leu Ala His Tyr Ser Val
 1881 1845
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 3133 Gln Leu Gly Leu Ala Gly His Arg Lys Leu Val Val Ile Leu Lys Asn
 3134 35 40 45
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 3137 50 55 60
 3139 Cys Phe Thr Lys Leu Leu Ser Lys Val Leu Pro Leu Lys Arg Gly Val
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 3142 Leu Ala Gly Asp Arg Ile Val Lys Phe Cys Tyr Leu Phe Val Asn Gly
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 3152 130 135 140
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 3160 Ala Tyr Leu Val Glu Phe Leu Thr Glu Ile His Glu Asn Asn Thr Leu
 3161 180 185 190
 3163 Glu Ala Leu Tyr Thr Leu Leu Ser Asn Arg Leu Gln Asp Lys Glu Leu
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 3166 Ser Ile Arg Ile Gln Ala Val Val Ala Leu Ser His Phe Gln Leu Phe
 3167 210 215 220
 3169 Glu Phe Ser Ile Glu Gly Asp Thr Gly Glu Phe Glu Asp Glu Leu Ile
 3170 225 230 235 240
 3172 Ser Ser Asn Gln Ile Gln Asn Lys Leu Ile Asn Ser Ile Gln Asn Asp
 3173 245 250 255

RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/786,880A

TIME: 13:07:15

Input Set : A:\16655PC1.APP.txt

Output Set: N:\CRF3\01262002\I786880A.raw

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3175 Asp Ser Pro Glu Val Arg Arg Ala Ala Leu Met Asn Leu Val Lys Thr
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3179          275          280          285
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3182          290          295          300
3184 Asp Leu Asp Asp Leu Glu Phe Glu Asp Arg Glu Phe Leu Leu Lys Trp
3185 305          310          315          320
3187 Gly Leu Asn Asp Arg Asp Glu Thr Val Lys Ala Ala Ala Thr Lys Met
3188          325          330          335
3190 Leu Thr Ile Tyr Trp Tyr Gln Ser Val Asn Glu Asp Leu Leu Glu Leu
3191          340          345          350
3193 Ile Asp Gln Leu Asn Val Lys Ser Ala Ile Ala Glu Gln Ala Ile Leu
3194          355          360          365
3196 Ala Phe Phe Lys Asn Lys Pro Glu Val Leu Glu Thr Ile Lys Ile Asp
3197          370          375          380
3199 Glu Ser Tyr Trp Lys Asn Leu Thr Thr Glu Lys Ala Phe Leu Met Arg
3200 385          390          395          400
3202 Thr Phe Tyr Gln Tyr Cys Asn Glu Asn Gln Leu His Ala Leu Met Asp
3203          405          410          415
3205 Ala Asn Phe Pro Glu Leu Leu Asp Leu Ser Ile Thr Leu Glu Lys Tyr
3206          420          425          430
3208 Leu Ser Val Arg Leu Lys Thr Ile Asn Glu Asn Glu Asn Leu Val Lys
3209          435          440          445
3211 Thr Trp Glu Thr Tyr Asn Ala Lys Ile Asp Glu Leu Asp Asp Gln Ile
3212          450          455          460
3214 Phe Ser Leu Glu Asn Gln Ile Ser Arg Ile Asn Thr Asp Ala Asp Asn
3215 465          470          475          480
3217 Phe Arg Lys Ser Leu Ser Asn Ile Glu Glu Asp Ile Ile Glu Ile Asn
3218          485          490          495
3220 Ile Ala Lys Asp Leu Phe Lys Lys Arg Ile Lys Gln Leu Lys Asn Asn
3221          500          505          510
3223 Ser Gly Asn Leu Glu Asp Leu Ile Thr Glu Glu Asn Gln Glu Ile Ala
3224          515          520          525
3226 Asp Gln Ile Lys Asp Phe Leu Met Glu Asp Leu Gln Gln Gln Leu Glu
3227          530          535          540
3229 Asp Ile Asn Lys Asn Leu Asp Glu Ile Glu His His Pro Glu Asp Ile
3230 545          550          555          560
3232 Thr Ala Lys Leu Glu Leu Gln Thr Lys Tyr Asp Ser Cys Ile Arg
3233          565          570          575
3235 Ala Leu Glu Thr Thr Ser Glu Leu Lys Ile Gln Thr Val Gln Ile Phe
3236          580          585          590
3238 Glu Gln Glu His Glu Asn Asp Cys Ile Pro Phe Val Asp Ala Leu Lys
3239          595          600          605
3241 Glu Leu Glu Phe Ile Ile Asn Gln Leu Leu Leu Ile Val Lys Asp Phe
3242          610          615          620
3244 Asp Tyr Gly Asp Glu Met Ala Arg Arg Lys Leu Leu His Ile Ile Arg
3245 625          630          635          640
3247 Met Thr Leu Thr Glu Asp Lys Leu Pro Asp Ala Leu Ile Ser Val Ala

```

RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/786,880A

TIME: 13:07:15

Input Set : A:\16655PC1.APP.txt

Output Set: N:\CRF3\01262002\I786880A.raw

```

3248          645          650          655
3250 Leu Arg Val Leu Arg Ala Leu Ser Ile Asn Glu Lys Asp Phe Val Ser
3251          660          665          670
3253 Met Ala Val Glu Ile Ile Thr Asp Ile Arg Asp Ser Arg Asp Asp Glu
3254          675          680          685
3256 Glu Phe His Ser Ala Ala Ala Thr Phe Asp Asp Asp Asp Asp Ile
3257          690          695          700
3259 Leu Gly Asn Gly Asp Asp Glu Ser Gln Gln Ser Ser Ser Leu Ser Ala
3260 705          710          715          720
3262 Val Thr Lys Lys Arg Arg Ile Glu Pro Asp Met Pro Pro Asp Asp Ile
3263          725          730          735
3265 Val Leu Arg Cys Leu Thr Met Thr Gln Tyr Val Leu Glu Val Ile Thr
3266          740          745          750
3268 His Ser Leu Asp Asp His Leu Ser Leu Ser Ser Ile Tyr Ser Gly Ile
3269          755          760          765
3271 Val Asn Tyr Ala Ile Gln Asn Glu Ser Lys Lys Lys Leu Tyr Leu Ala
3272          770          775          780
3274 Gly Leu Thr Cys Leu Gly Leu Tyr Ser Leu Ile Asp Ser Lys Ile Ala
3275 785          790          795          800
3277 Arg Ile Ala Thr Thr Leu Leu Leu Ala Met Arg Ser Asn Gly Glu
3278          805          810          815
3280 Glu Val Lys Glu Ile Gly Met Lys Ala Ile Val Asp Ile Leu Ala Ile
3281          820          825          830
3283 Tyr Gly Met Ser Ile Leu Asp Lys Ser Ser Lys Tyr Lys Tyr Ser Arg
3284          835          840          845
3286 Met Phe Phe Lys Val Leu Asn Ser Phe Asp Ala Pro Lys Leu Gln Cys
3287          850          855          860
3289 Ile Val Ala Glu Gly Leu Cys Lys Leu Phe Leu Ala Asp Ile Leu Tyr
3290 865          870          875          880
3292 Lys Thr Asp Lys Arg Ser Leu Phe Gly Asn Ala Ile Gln Gly Gly Gly
3293          885          890          895
3295 Gly Gly Gly Gly Gly Asn Asp Asp Pro Thr Thr Thr Asn Asp Asp Glu
3296          900          905          910
3298 Thr Glu Glu Glu Thr Asp Arg Glu His Glu Lys His Leu Phe Glu Ala
3299          915          920          925
3301 Ile Val Leu Ile Tyr Phe Asn Pro Asn Thr Lys Ser Asn Gln Glu Leu
3302          930          935          940
3304 Gln Gln Ile Leu Ser Phe Cys Ile Pro Val Tyr Ala Phe Ser His Ile
3305 945          950          955          960
3307 Asn His Gln Ile Asn Leu Ala Ala Val Ser Gly Asp Val Ile Tyr Arg
3308          965          970          975
3310 Leu Phe Thr Glu Thr Glu Thr Glu Leu Ser Pro Ser Val Ile Ile Pro
3311          980          985          990
3313 Gln Leu Ile Ser Trp Cys Asp Pro Arg Asn Leu Val Lys Leu Ser Asn
3314          995          1000          1005
3316 Glu Glu Ile Asn Gln Ala Thr Ser His Leu Trp Gln Cys Val Tyr Leu
3317 1010          1015          1020
3319 Leu Gln Val Val Glu Gln Val Asp Ala Arg Asn Val Lys Arg Cys Ile
E--> 3320 025/025          1030          1035          1040

```

*same
env as
previous
pages*

RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/786,880A

TIME: 13:07:15

Input Set : A:\16655PC1.APP.txt

Output Set: N:\CRF3\01262002\I786880A.raw

```

3322 Ile Asn Asn Leu Asn Lys Phe His Ile Thr Glu Glu Leu Glu Ser Asn
3323                               1045                               1050                               1055
3325 Gln Leu Gln Ala Leu Ile Lys Ala Leu Asp Ala Thr Val Glu Leu Phe
3326                               1060                               1065                               1070
3328 Thr Asn Asn Glu Asp Asn Pro Asn Phe Ile Leu Asp Lys Pro Thr Lys
3329                               1075                               1080                               1085
3331 Lys Asn Phe Asp Thr Phe Ile Glu Ser Ile Lys Asn Lys Leu Glu Ile
3332                               1090                               1095                               1100
3334 Ala Gln Lys Arg Glu Glu Asn Glu Leu Ile Lys Ser Gly Thr Asn Ser
E--> 3335 105 1110 1115 1120 same
3337 Ile Leu His Glu Leu Asp Asp Leu Asp Ile Gly Thr Gly Glu Ser Ser
3338                               1125                               1130                               1135
3340 Gln Ile Ser Ile Lys Ser Glu Thr Lys Arg Arg Asp Leu Asp Arg Ser
3341                               1140                               1145                               1150
3343 Leu Gln Val Ser Lys Thr Thr Ser Pro Glu Thr Ser Glu Asn Glu Asp
3344                               1155                               1160                               1165
3346 Glu Glu Asp Asp Asn Glu Glu Glu Glu Gln Glu Lys Lys Lys Ser Phe
3347                               1170                               1175                               1180
3349 Thr Asp Gly Lys Asn Lys Leu Glu Leu Lys Ala Asp Lys Pro Ile Thr
E--> 3350 185 1190 1195 1200 same
3352 Phe Lys Ala Glu Asp Lys Arg Glu Gly Ser Val Glu Thr Asp His Gly
3353                               1205                               1210                               1215
3355 Gln Glu Gln Val Leu Val Glu Ser Lys Lys Val Ile Asp Ser Asn Val
3356                               1220                               1225                               1230
3358 Glu Asp Ser Leu Glu Asp Ile Asp Lys Phe Leu Glu Glu Ala Asp Asp
3359                               1235                               1240                               1245
3361 Val Asp Tyr Gly Asp Ile Ser Met Asp
3362                               1250                               1255
3464 <210> SEQ ID NO: 25
3465 <211> LENGTH: 231 ? see below 9/10 shown
3466 <212> TYPE: DNA see next page, too
3467 <213> ORGANISM: Artificial Sequence
3469 <220> FEATURE:
3470 <223> OTHER INFORMATION: Description of Artificial Sequence: Homologous
3471 Fragment to Sc YOR110
3473 <400> SEQUENCE: 25
3474 atatgtgttg atagttacac atgcagcaac gaaaattgct ttaggatcag ctttattaca 60
3476 gttaaaatca gttactgatg ttatagatga taatcaaact gtgttacgtg ctggtgcatg 120
3478 ttcatattcc aaatttggtta gagatggcga agataaaacc aatcatacta ttcaatggaa 180
3480 aattgtcatg aatggtaatt gtgaattcct gacacagggg gaagaaatga a 231
E--> 3484 aaa gag att gga atg aaa gct att gtg gat ata ttg gca att 2496, 273
3485 Glu Val Lys Glu Ile Gly Met Lys Ala Ile Val Asp Ile Leu Ala Ile
OK-> 3486 820 825 830
E--> 3488 tat ggt atg agt att ctt gat aaa tca tct aaa tac aaa tat tca aga 2544
3489 Tyr Gly Met Ser Ile Leu Asp Lys Ser Ser Lys Tyr Lys Tyr Ser Arg
OK-> 3490 835 840 845
E--> 3492 atg ttt ttc aaa gtt tta aat tca ttt gat gca cca aaa tta caa tgc 2592
3493 Met Phe Phe Lys Val Leu Asn Ser Phe Asp Ala Pro Lys Leu Gln Cys
OK-> 3494 850 855 860

```

Cumulative base totals appear at right margin of each line

codons must appear directly above respective amino acids

RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/786,880A

TIME: 13:07:15

Input Set : A:\16655PC1.APP.txt

Output Set: N:\CRF3\01262002\I786880A.raw

E--> 3496 att gtc gct gaa gga tta tgc aaa ttg ttt tta gcc gat att ttg tac 2640
 3497 Ile Val Ala Glu Gly Leu Cys Lys Leu Phe Leu Ala Asp Ile Leu Tyr
 OK-> 3498 865 870 875 880
 E--> 3500 aag act gac aaa cgg agt tta ttt gga aat gct att caa ggt ggt ggt 2688
 3501 Lys Thr Asp Lys Arg Ser Leu Phe Gly Asn Ala Ile Gln Gly Gly Gly
 OK-> 3502 885 890 895
 E--> 3504 ggt ggt ggt ggt ggt aat gat gat cca act acc acc aat gac gat gaa 2736
 3505 Gly Gly Gly Gly Gly Asn Asp Asp Pro Thr Thr Thr Asn Asp Asp Glu
 OK-> 3506 900 905 910
 E--> 3508 act gaa gaa gaa aca gat cga gag cat gaa aag cat tta ttt gaa gcg 2784
 3509 Thr Glu Glu Glu Thr Asp Arg Glu His Glu Lys His Leu Phe Glu Ala
 OK-> 3510 915 920 925
 E--> 3512 att gta ctt att tat ttc aac ccc aac acc aaa tca aat caa gaa tta 2832
 3513 Ile Val Leu Ile Tyr Phe Asn Pro Asn Thr Lys Ser Asn Gln Glu Leu
 OK-> 3514 930 935 940
 E--> 3516 caa caa att ttg tca ttt tgt att cca gtt tat gcc ttt tct cat ata 2880
 3517 Gln Gln Ile Leu Ser Phe Cys Ile Pro Val Tyr Ala Phe Ser His Ile
 OK-> 3518 945 950 955 960
 E--> 3520 aat cat caa atc aat tta gct gca gtt agt ggt gat gtt att tat cga 2928
 3521 Asn His Gln Ile Asn Leu Ala Ala Val Ser Gly Asp Val Ile Tyr Arg
 OK-> 3522 965 970 975
 E--> 3524 ctt ttc act gaa aca gaa aca gaa tta tca cca agt gtt ata atc cct 2976
 3525 Leu Phe Thr Glu Thr Glu Thr Glu Leu Ser Pro Ser Val Ile Ile Pro
 OK-> 3526 980 985 990
 E--> 3528 caa tta ata tca tgg tgt gat cct cga aat tta gtt aaa tta tgc aat 3024
 3529 Gln Leu Ile Ser Trp Cys Asp Pro Arg Asn Leu Val Lys Leu Ser Asn
 OK-> 3530 995 1000 1005
 E--> 3532 gag gaa ata aat caa gca aca tca cat tta tgg caa tgt gtt tat tta 3072
 3533 Glu Glu Ile Asn Gln Ala Thr Ser His Leu Trp Gln Cys Val Tyr Leu
 OK-> 3534 1010 1015 1020
 E--> 3536 tta caa gtg gtt gaa caa gta gat gct cgt aat gtt aaa aga tgc atc 3120
 3537 Leu Gln Val Val Glu Gln Val Asp Ala Arg Asn Val Lys Arg Cys Ile
 OK-> 3538 1025 1030 1035 1040
 E--> 3540 att aac aat ttg a

numbering
off

↓

see following pages for more error

09/186,880A U

<210> 12
<211> 575
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 12
gtttggtgac tcaacctacc accaatcgat ttacactctt cataagttct ctagtgtgaa 60
taattgcagg ttgataattt ggtcccattg acaataacac tgttgtaagt agctgaaata 120
ttggtacaag gaactcaaaa tatgatatag tgttttcact tcgcaacttg tatggatcca 180
ccaagtcagt tatcgaaagt ggagtatcta gcaaaacatt tacattgaca gtcttgtgat 240
cttgaacttc ttcaattcgt aaacttaaac caatatctgg atcaatctgc aaaaacttcg 300
actgatgcaa aattgaaaac aattcatttt ggaatcannn nnanaantna aaaaaaatat 360
atattnnnnnn tttttttttt tttttttttt tttattttat cttacannac accccaacac 420
aacacccaac conaaaaacac ccaacacctc catcttgtcc cgcttttctc tcacattttt 480
tctctactac tatcacacaa tctataaaac atacaccccc tcaaccctc ctccccaaca 540
aacctacctc cctcaactcc tatttcctcc ctcc 575

See
item 9
on Enon
Summary
Sheet

09/186880A 12

<210> 16

<211> 484

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: Splice Variant

<400> 16

→ <220> insert
this
mandatory
numeric
identifier
whenever
-<2217, <2227,
or <2237 is
shown

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/786,880A

DATE: 01/26/2002

TIME: 13:07:16

Input Set : A:\16655PC1.APP.txt

Output Set: N:\CRF3\01262002\I786880A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:1728 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:11
 M:332 Repeated in SeqNo=11
 L:1903 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12
 L:1903 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12
 L:1903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
 L:1905 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12
 L:1905 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12
 L:1905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
 L:1907 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12
 L:1907 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12
 L:1907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
 L:2219 M:258 W: Mandatory Feature missing, <220> FEATURE:
 L:3320 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:21
 M:332 Repeated in SeqNo=21
 L:3484 M:254 E: No. of Bases conflict, LENGTH:Input:2496 Counted:273 SEQ:25
 L:3486 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 M:254 Repeated in SeqNo=25
 L:3490 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3494 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3498 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3502 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3506 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3510 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3514 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3518 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3522 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3526 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3530 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3534 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3538 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
 L:3540 M:252 E: No. of Seq. differs, <211>LENGTH:Input:231 Found:910 SEQ:25